

# WINDOWS

DOUBLE HUNG & CASEMENT

*of*

ARCHITECTURAL BRONZE

NICKEL SILVER

ALUMINUM

STEEL



GENERAL · BRONZE · CORPORATION

DISTINCTIVE PRODUCTIONS IN ALL METALS  
LONG ISLAND CITY, N.Y.

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**B**RONZE ENDURES FOR ALL TIME. A popular concept—trite but true—for Bronze, foremost among the group of non-ferrous (non-rusting) alloys, whose base is copper, employed for architectural and building purposes, has perpetually recorded and

preserved civilization's progress and man's art expressions from time immemorial.

Buildings equipped with Bronze work possess certain recognized qualities of dignity, refinement and permanence to a degree obtainable with no other material; qualities which tenants quickly detect and which emphasize the owner's pride of possession. Bronze work, denied proper handling in manufacture, lacks these patrician qualities, thus losing its inherent beauty.

The Bronze Industry,—now embracing production in all non-ferrous metals,—has been revolutionized, during the last quarter of a century. New alloys, new processes and new construction have been so developed that Bronze Work, heretofore deemed economically impossible for any but costly monumental structures, is now available for the better grade buildings of every class; as is evidenced by a constantly increasing demand and use.

Ranking first in importance among these modern developments is the extruded process, which has developed a group of standardized metals known as extruded bronze, extruded nickel, and extruded aluminum. Briefly, the process consists of forging semi-molten billets through steel dies, forming profiled sections of such uniformity and precision that even fine watch

mechanism can be made from extruded sections. The physical, structural and accuracy values secured by extrusion are ideally adapted to architectural work.

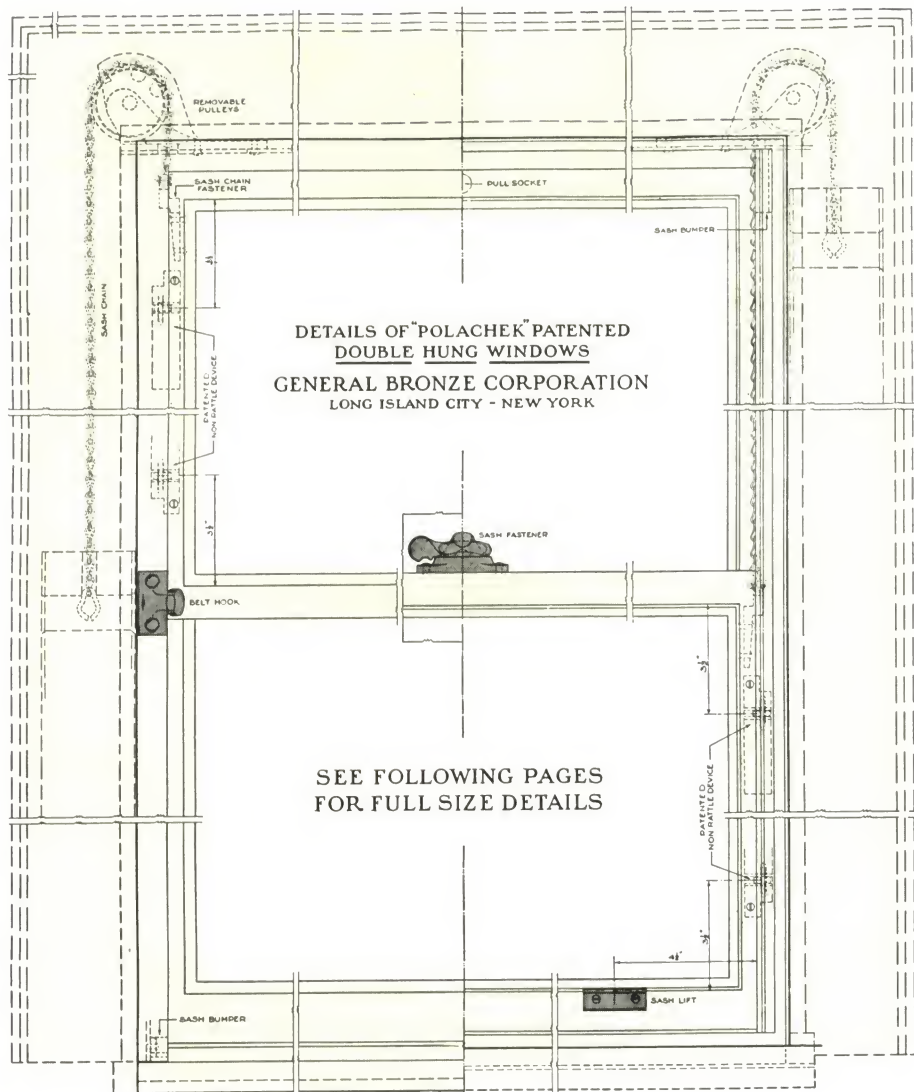
General Bronze Corporation, by extensive engineering study, research and development, has standardized a series of Metal Building Specialties in non-ferrous metals, at the same time preserving those traditional construction methods accepted as worthy of the time-honored qualities of this so-called semi-precious metal.

The windows here presented are fabricated in this construction and by these methods. The advantages gained in mechanical precision, through the use of Extruded Sections, is augmented by the painstaking care of skilled bronze artisans and mechanics in machining, fitting and assembling. Thus constructed, these windows meet every requirement of efficient service, preserve the exacting standards of fine Bronze work and will endure as long as the structures of brick and stone in which they are set.

It is the purpose of this brochure to bring to those desiring the best in windows at least a partial knowledge of the excellent qualities of "Polachek" Patented Double Hung and Casement Windows; qualities already appreciated by the architects, owners and builders of many of the most prominent buildings in the United States and abroad, in which they have been used.

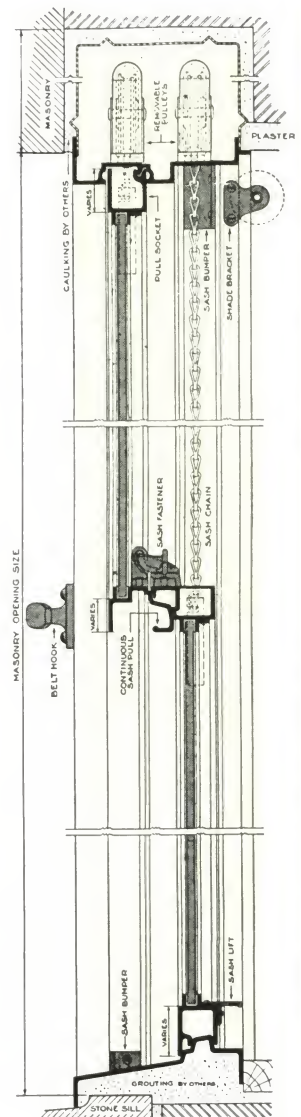
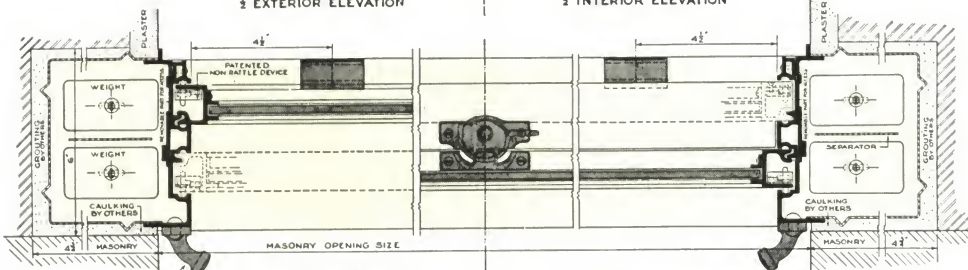
Windows made by General Bronze Corporation, according to their exclusive standards, have a background covered by years of fruitful experience in bronze construction and handling, as well as the vast facilities and guarantee of the world's largest architectural and ornamental metal-working organization.





1/2 EXTERIOR ELEVATION

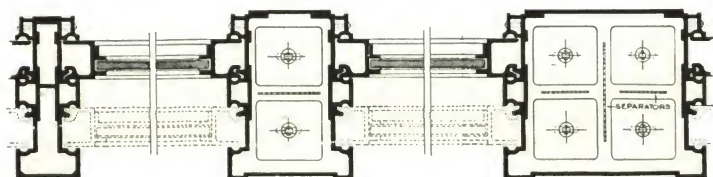
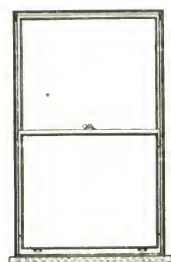
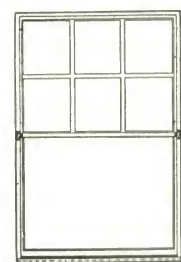
1/2 INTERIOR ELEVATION



SECTION



MUNTINS



MULLION

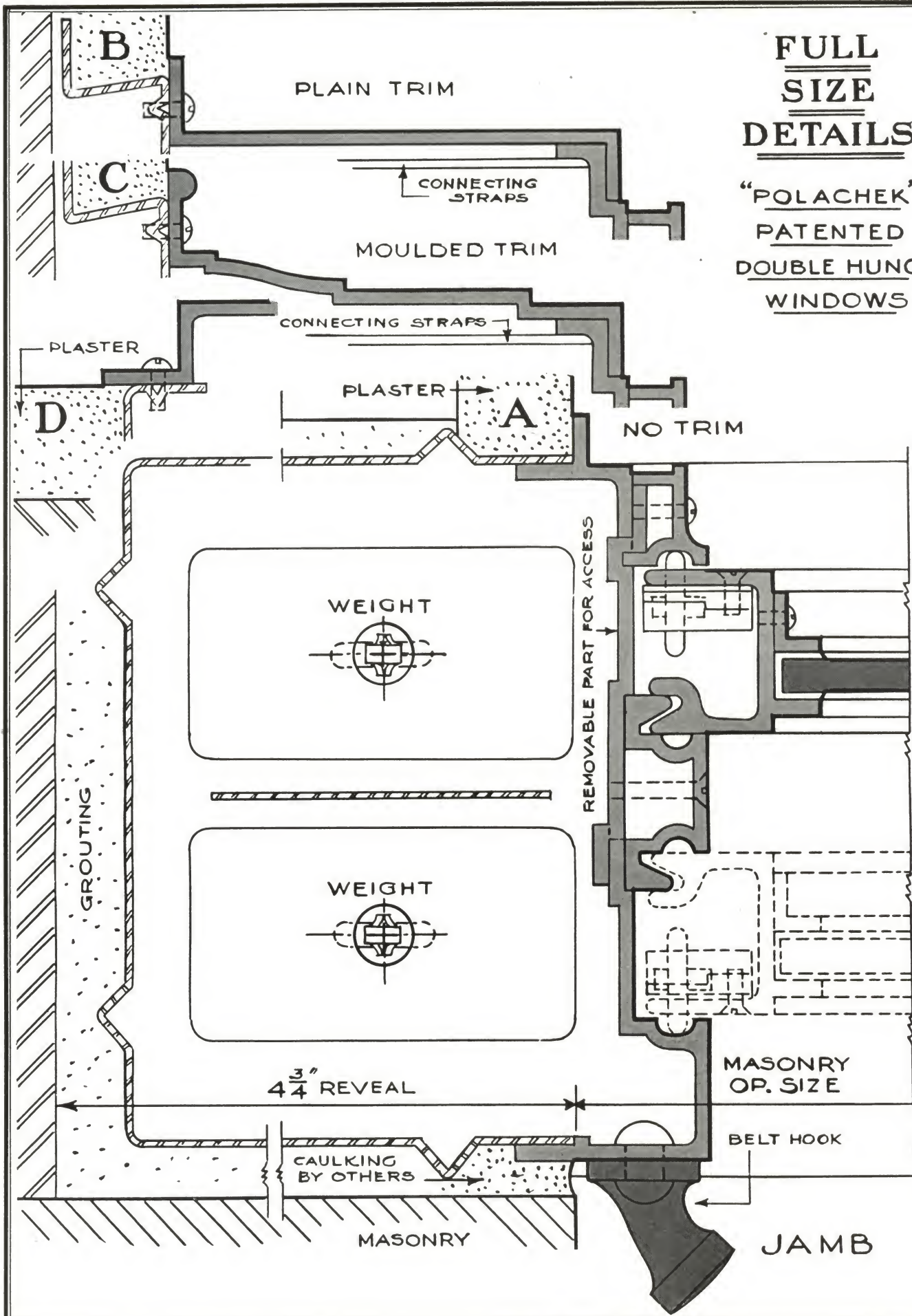
2 WEIGHT MULLION

4 WEIGHT MULLION

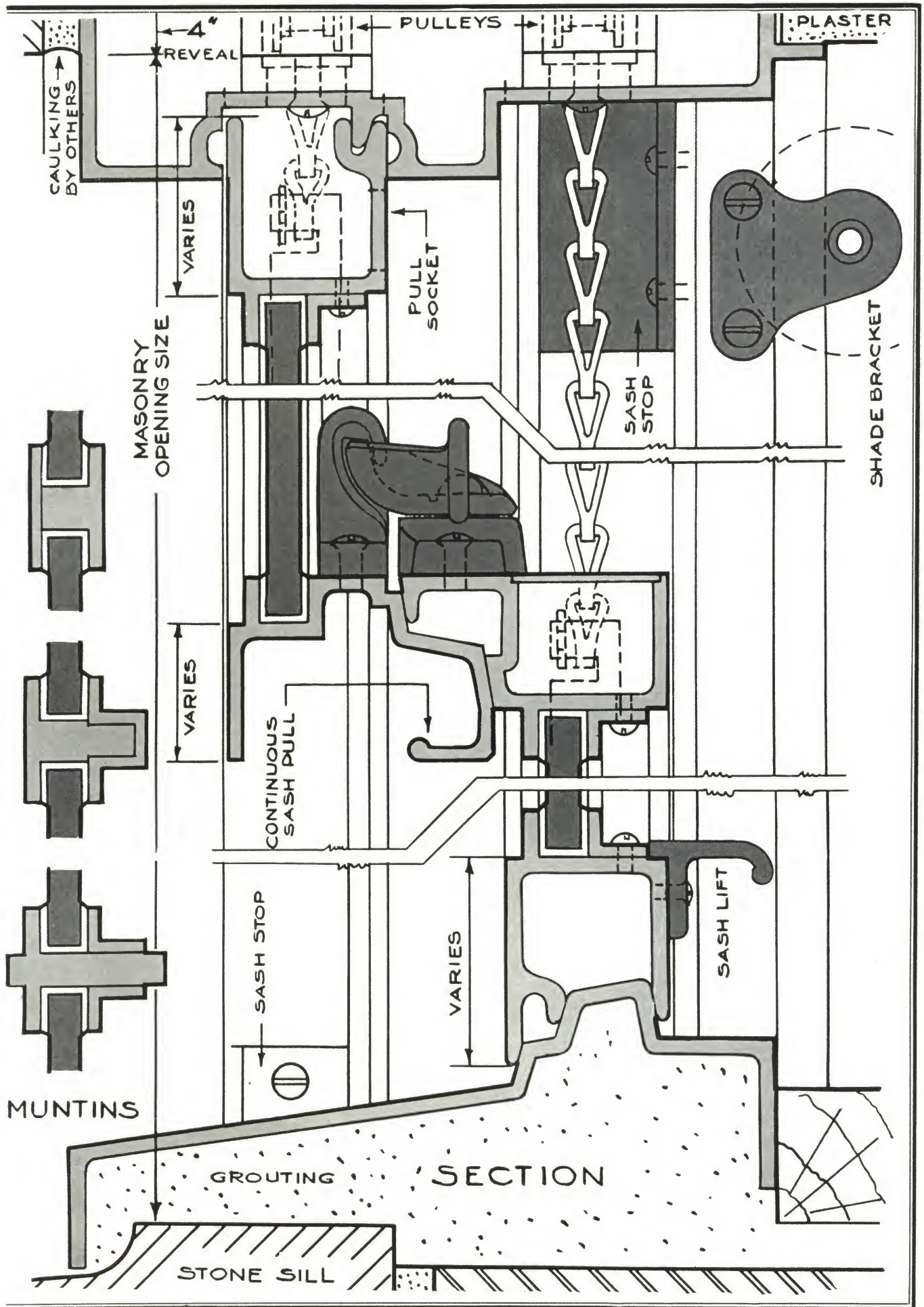


# **FULL SIZE DETAILS**

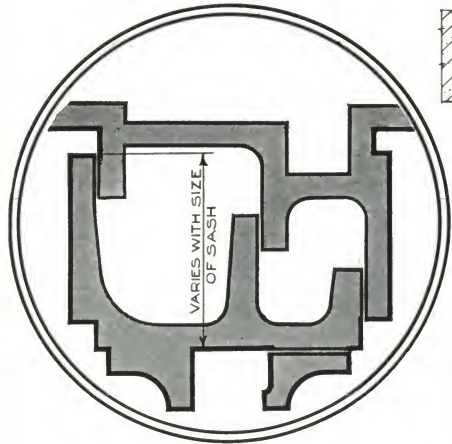
**"POLACHEK"  
PATENTED  
DOUBLE HUNG  
WINDOWS**





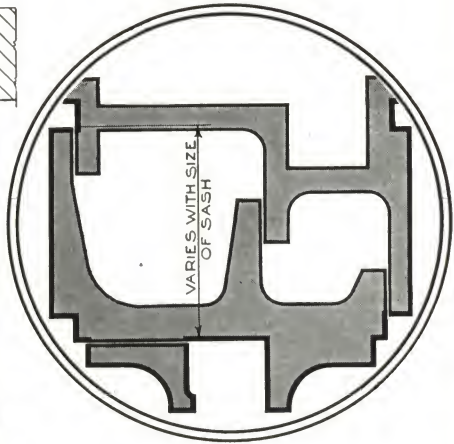


F.S. DETAIL

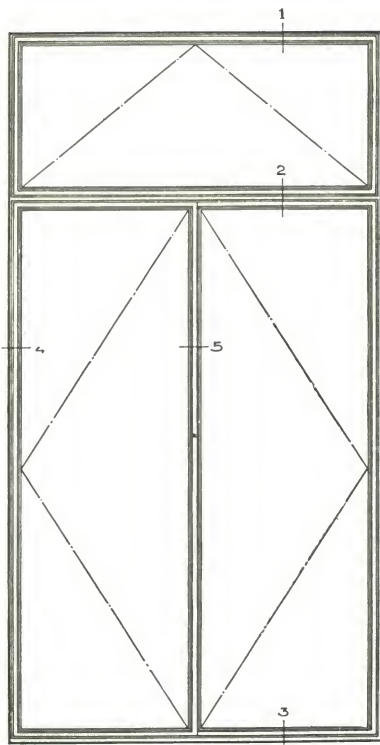
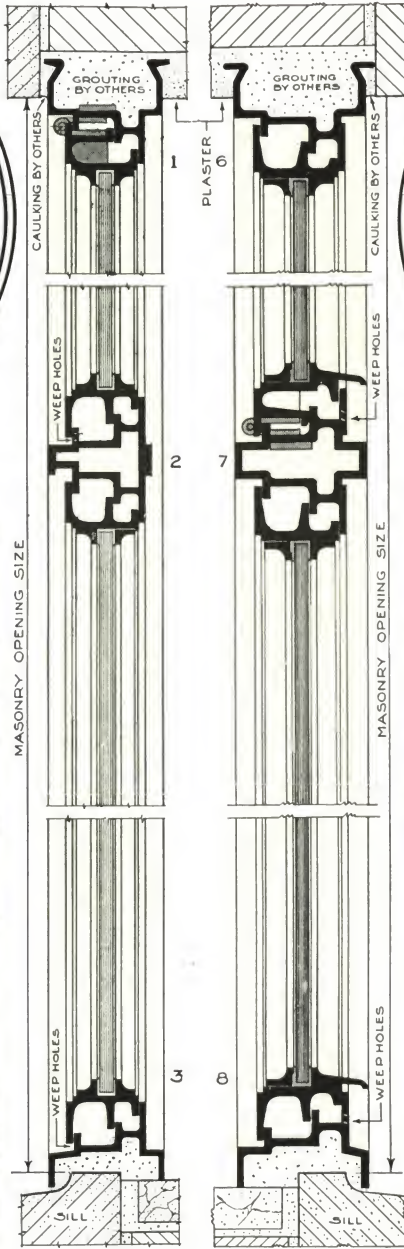


TYPE "A1"

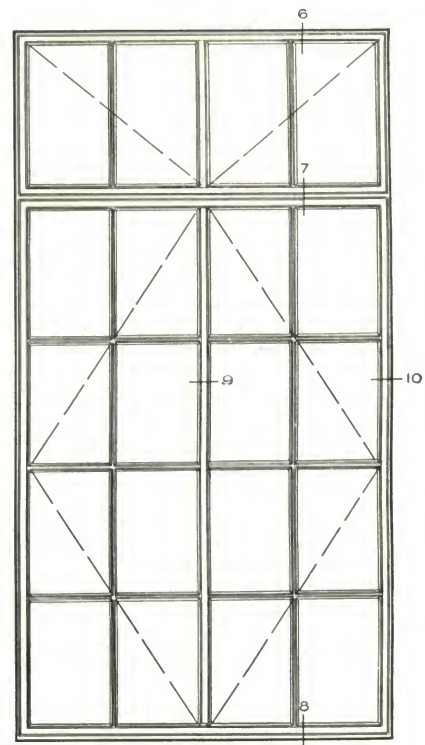
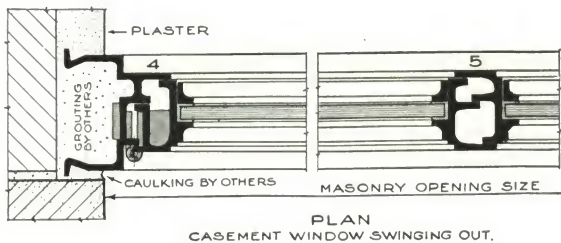
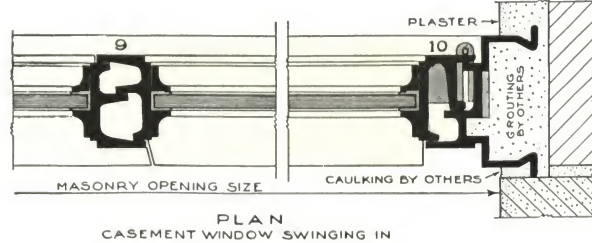
F.S. DETAIL



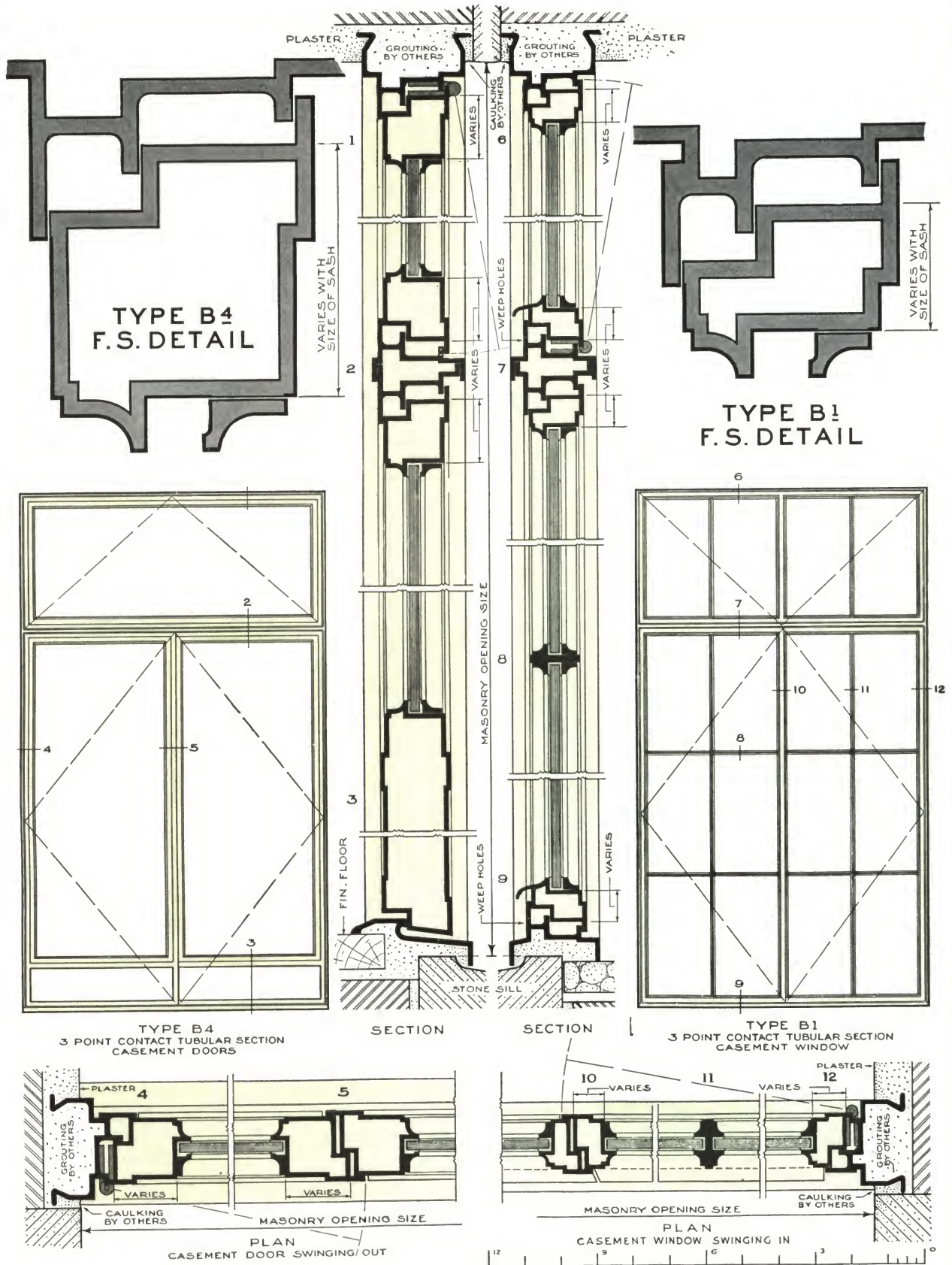
TYPE "A2"

TYPE A1  
3 POINT CONTACT OPEN SECTION  
CASEMENT WINDOW

SECTION

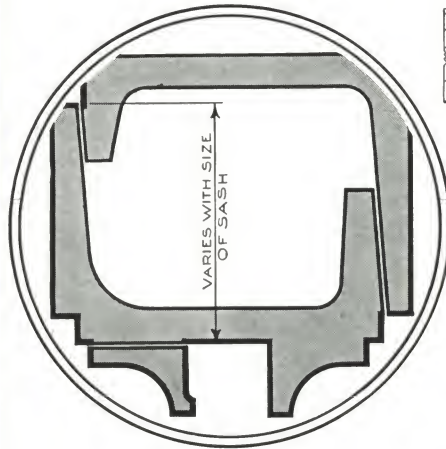
TYPE A2  
3 POINT CONTACT OPEN SECTION  
CASEMENT WINDOWPLAN  
CASEMENT WINDOW SWINGING OUT.PLAN  
CASEMENT WINDOW SWINGING INDETAILS OF TYPES A  
"POLACHEK"  
CASEMENT WINDOWS



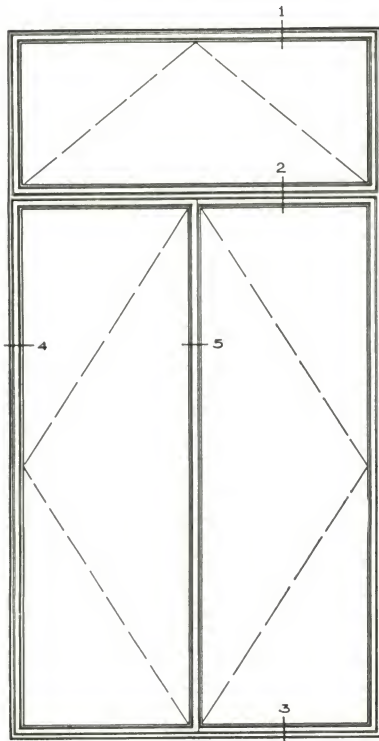


DETAILS OF TYPE B  
"POLACHEK"  
CASEMENT DOOR AND WINDOW

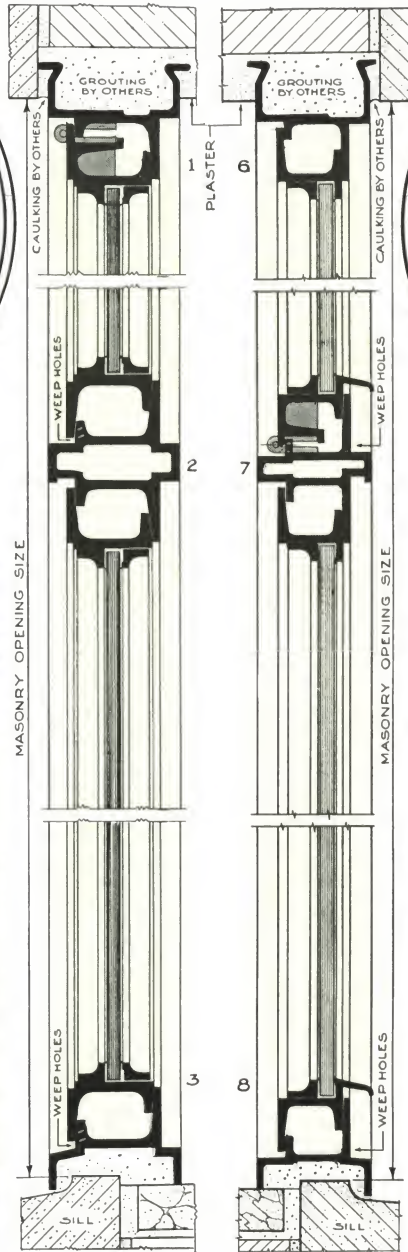
F. S. DETAIL



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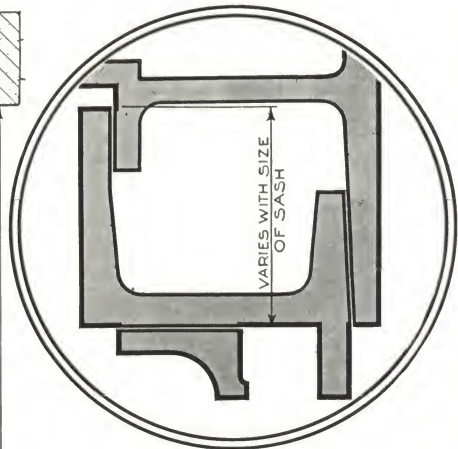


TYPE C2  
2 POINT CONTACT OPEN SECTION  
CASEMENT WINDOW

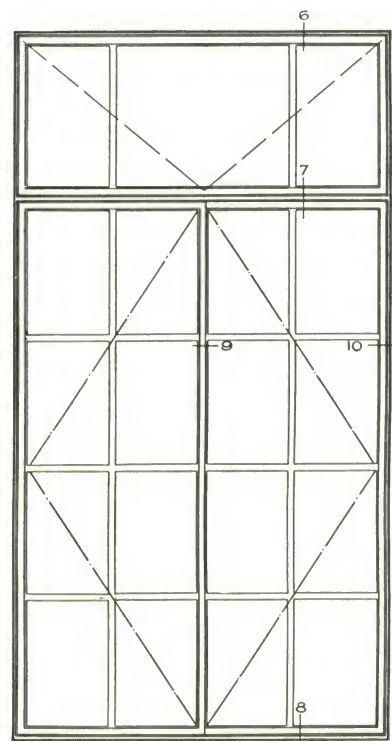


SECTION

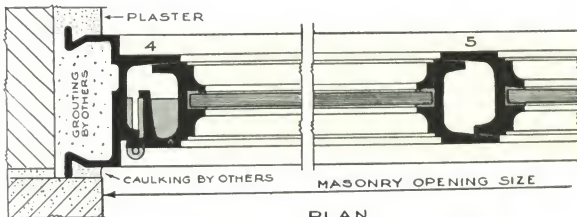
F. S. DETAIL



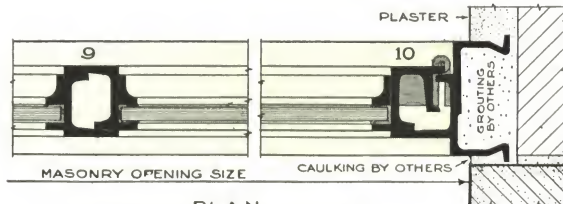
TYPE "C1"



TYPE C1  
2 POINT CONTACT OPEN SECTION  
CASEMENT WINDOW



PLAN  
CASEMENT WINDOW SWINGING OUT



PLAN  
CASEMENT WINDOW SWINGING IN



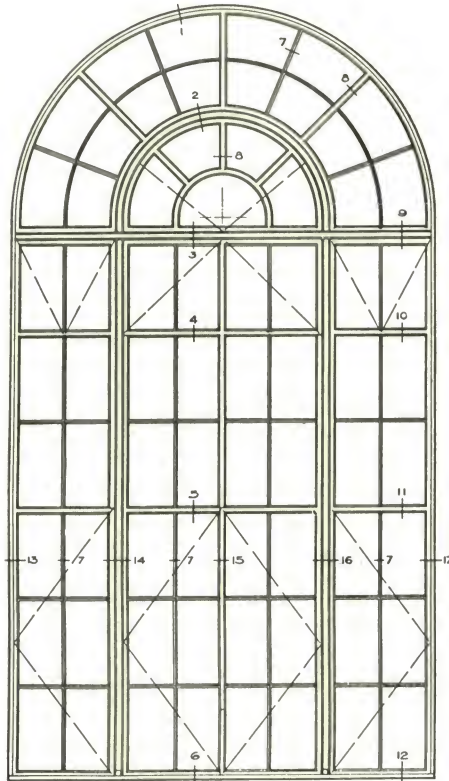
DETAILS OF TYPES C  
"POLACHEK"  
CASEMENT WINDOWS



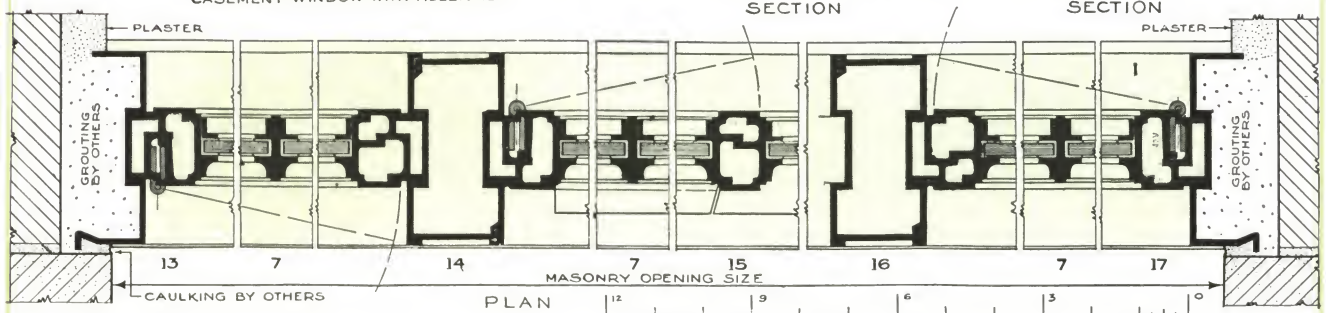
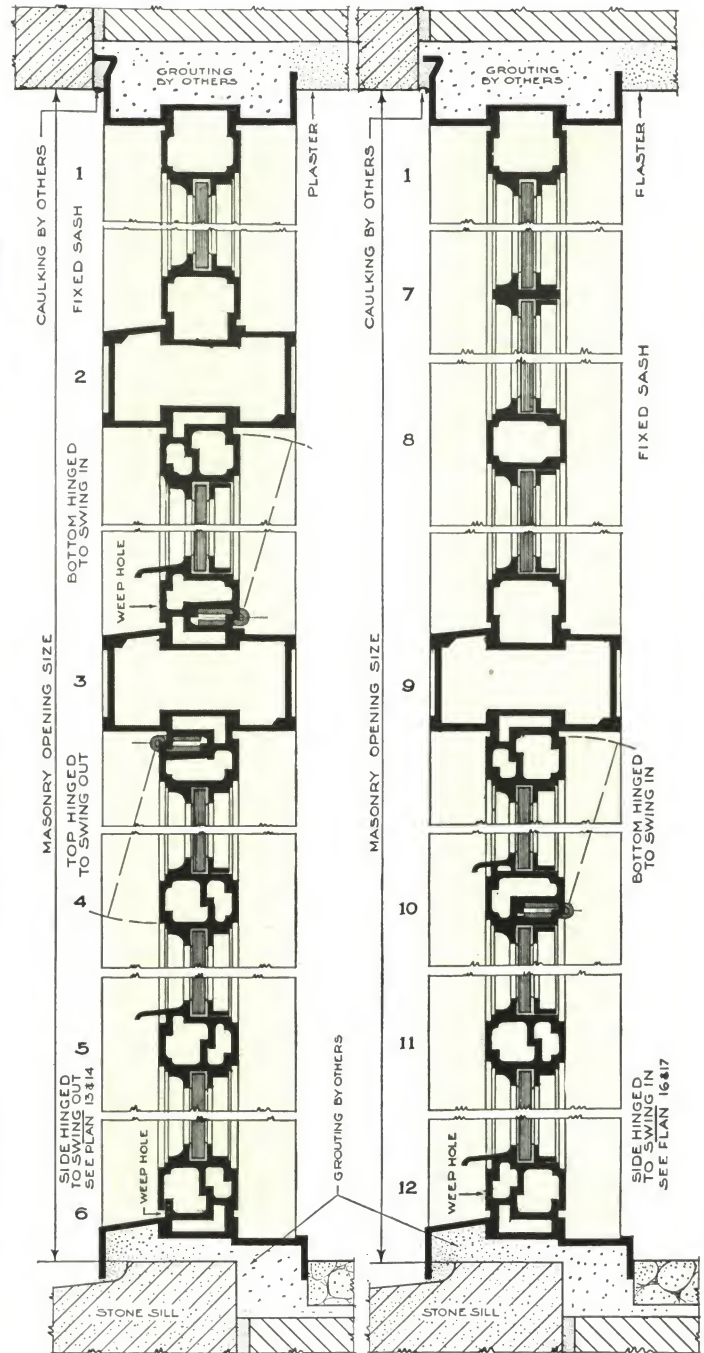
## F.S. DETAIL



## TYPE "A1"

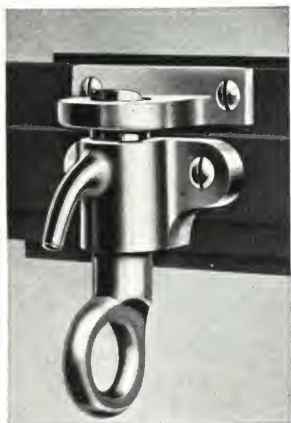


TYPE A  
3 POINT CONTACT OPEN SECTION  
CASEMENT WINDOW WITH MULLIONS

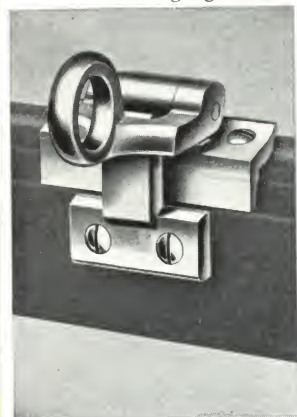


DETAILS OF TYPE A1  
"POLACHEK"  
CASEMENT WINDOW WITH MULLIONS





TRANSOM CATCH  
*In Swinging*

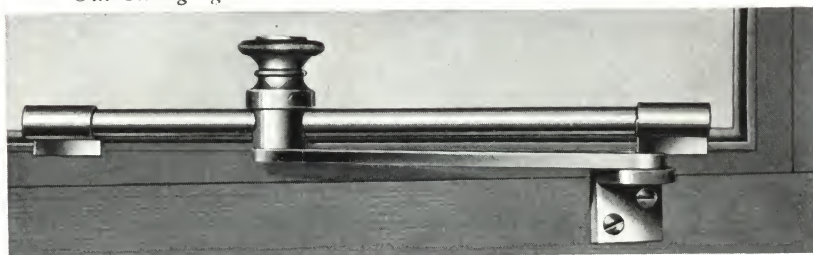


TRANSOM CATCH  
*Out Swinging*

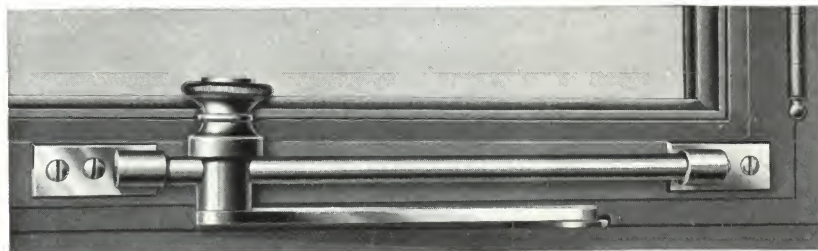


HANDLE  
AND  
FASTENER

*We make our hardware in  
bronze, nickel, or aluminum to  
suit special conditions and to  
match the window material*



SASH ADJUSTOR—*Out Swinging*



SASH ADJUSTOR—*In Swinging*



CREMORNE BOLT  
*top, bottom and center lock*

GENERAL BRONZE SPECIAL HARDWARE  
FOR CASEMENT WINDOWS AND TRANSOM SASH



## DESCRIPTION OF THE "POLACHEK" PATENTED DOUBLE HUNG AND CASEMENT WINDOW

THE "POLACHEK" PATENTED DOUBLE HUNG WINDOW, owned and manufactured exclusively by General Bronze Corporation, is air-tight and weatherproof without binding or rattling in any position; non-rusting, permanent and quiet in operation. Salient patented features are a series of accurately-matched integral wedge-shaped tongues and grooves, effecting positive multiple contacts throughout the perimeter of both sashes when closed, and concealed devices within the sash construction which effectively prevent sash rattling while in any position. Patented in the U. S. on Dec. 1, 1924; and improved on July 7, 1925; July 19, 1927, and Nov. 29, 1927.

All parts of the window are made by special dies of Extruded Metal—a trade name applied to well-known, standardized alloys in Bronze, Aluminum, Benedict Nickel Metals. Metal formed by the extrusion process contributes qualities of particular advantage to window construction—uniformity in profile, strength, rigidity and surface texture. These, combined with intelligent design, precise machining and careful assembling of the members, insure a permanently satisfactory and distinctive installation.

The design of the window is simple, dignified and architecturally correct. Frame and Sash are so designed as to combine sufficient strength with the maximum obtainable of daylight opening. Sash provided for glazing from inside. Construction is rigid and permanent—it being impossible for the corners of sash or frame to open. Mitres, copes, tenons, and all other inter-



*Main Platform—CHASE NATIONAL BANK, Head Office, New York City*

sections are precision-gauged and machined; members are carefully fitted and assembled, and each unit thoroughly inspected before shipment. Workmanship is assured thru employment of artisans trained in handling fine ornamental bronze work.

The "Polachek" Double Hung Window is produced in two types:

FIRST TYPE as illustrated on page 4 with no trim, plaster adjoining jamb of the window as shown by the letter "A". In this type, a part of the jamb is removable for access to the weight box, as indicated.

SECOND TYPE provides a metal trim on the inside which gives the window a more pleasing appearance. This trim is removable for easier access to the weight pocket as indicated by letter "B". This type can be furnished with a moulded trim, as indicated by letter "C" or with a trim returning to plaster, as indicated by letter "D", to meet special conditions.

Moulded or plain extruded metal stools, if required, will be provided for any of the above types.

We have designed, for each of the above types, three sets of die sections for horizontal sash rails for varying widths of windows.

STANDARD EQUIPMENT: The frames are fitted with heavy, galvanized iron, asphaltum-coated weight boxes; roller-bearing, overhead-type pulleys in heavy housings bronze faced to match frames; cast-iron weights and Hercules finish or hot galvanized, extra-heavy, steel sash chain, plated to match frames.

Each window is fitted with two sash lifts, one sash lock, one sash pull and four sash bumpers—all heavy, solid bronze, nickel or aluminum to match windows.

STANDARD EXTRA EQUIPMENT: (—) Cleaner's safety hooks and belts, (—) sash pull hooks on wood poles, (—) shade brackets, (—) curtain rod brackets and rods, and (—) drapery hooks.

SPECIAL EXTRA EQUIPMENT: Fly Screens, Wind Shields, Awning Brackets, Venetian Blind Supports, Radiator Brackets, Hoods, Enclosures, with or without grilles.

*Special Steel Double Hung Windows are also manufactured by the Corporation. Details upon request.*



IRVING TRUST CO.  
230 Park Avenue, New York City



BANKERS TRUST CO.  
57th Street & Madison Avenue, New York City



The "POLACHEK" PATENTED CASEMENT WINDOW is another exclusive product of General Bronze Corporation and embodies the same standards of Good Construction, Excellent Workmanship and Permanent Service. It is so designed and fabricated as to produce continuous three-point contact throughout the sash perimeter, when closed. Patented in the U. S. March 9, 1929.

Frame, sash and trim throughout are of extruded metal from special dies.

The Corporation also makes a casement window, the stiles and rails of the sash being tubular-shaped (closed section) of drawn metal, which is also a three-point contact type, as illustrated on page 7. The tubular-shaped members add strength and rigidity to the sash and a more finished appearance when the sash is open and are specially adapted to large casements and casements extending to the floor that serve as doors.

The superior weatherproof qualities of these windows are recognized and attested to by many Architects, Owners and Builders who have used them, and are apparent to the discerning eye from a careful study of the sections herein shown.

**STANDARD EQUIPMENT:** General Bronze Special Hardware, as illustrated on page 10, is standard for all casements. Attractive, sturdy and efficient, it harmonizes perfectly with this most attractive type of window. Note particularly the absence of extreme projections and the general compactness of operating and engaging parts, not obtainable in other makes.

**STANDARD AND SPECIAL EXTRA EQUIPMENT** for casement windows is furnished the same as noted above for Double Hung Windows.

Complete architectural specifications and details also samples of "Polachek" Double Hung and Casement Windows will be supplied on request. We solicit the opportunity to quote on your requirements.

Address either the Eastern General Sales Office, 480 Hancock Street, Long Island City, N. Y., the Western General Sales Office, Builders Building, Chicago, Ill., or any office of the Corporation's Sales Representatives, located in principal cities.



FRED F. FRENCH BUILDING, *Fifth Avenue, New York City*





NEW YORK LIFE INSURANCE BUILDING  
*Cass Gilbert, Architect      Starrett Brothers & Eken, Builders*  
BRONZE WINDOWS  
*of the "Polachek" Double Hung Type Throughout*



## A PARTIAL LIST OF INSTALLATIONS OF BRONZE AND ALUMINUM "POLACHEK" DOUBLE HUNG AND CASEMENT WINDOWS

<i>Building</i>	<i>Location</i>	<i>Architects</i>
N. Y. LIFE INSURANCE CO.	New York, N. Y.	Cass Gilbert
PRUDENTIAL LIFE INSURANCE BLDG.	Newark, N. J.	Cass Gilbert
WEST VIRGINIA STATE CAPITAL	Charlestown, West Va.	Cass Gilbert
AEOLIAN BUILDING	New York, N. Y.	Warren & Wetmore
N. Y. CENTRAL R.R. OFFICE BLDG.	New York, N. Y.	Warren & Wetmore
PENNSYLVANIA RAILROAD BUILDING	Philadelphia, Pa.	Graham, Anderson, Probst & White
MEDICAL ARTS BUILDING	Cleveland, Ohio	Graham, Anderson, Probst & White
KOPPERS BUILDING	Pittsburgh, Pa.	Graham, Anderson, Probst & White
FOREMAN NATIONAL BANK	Chicago, Ill.	Graham, Anderson, Probst & White
CHASE NATIONAL BANK	New York, N. Y.	Graham, Anderson, Probst & White
MITSUBI MAIN BUILDING	Tokyo, Japan	Trowbridge & Livingston
CENTRAL UNION TRUST CO.	66 Broadway, N. Y.	Cross & Cross
FIRST NATIONAL BANK OF BOSTON	Buenos Ayres Branch	York & Sawyer
NORTHWESTERN MUTUAL LIFE INS. CO.	Milwaukee, Wis.	Holabird & Root
MUTUAL BENEFIT LIFE INS. CO.	Newark, N. J.	John H. & Wilson C. Ely
MUNICIPAL BUILDING	East Orange, N. J.	John H. & Wilson C. Ely
NEBRASKA STATE CAPITAL BUILDING	Lincoln, Neb.	Bertram Goodhue Associates
COUNTY OFFICE BUILDING	Pittsburgh, Pa.	Stanley L. Roush
NEW YORK COUNTY COURT HOUSE	New York, N. Y.	Guy Lowell
N. Y. STATE OFFICE BUILDING	Albany, N. Y.	W. E. Haugaard
N. Y. STATE OFFICE BUILDING	New York, N. Y.	W. E. Haugaard
CITY HALL ANNEX	Philadelphia, Pa.	Phillip H. Johnson
STERLING MEMORIAL LIBRARY	New Haven, Conn.	James Gamble Rogers
CLARK LIBRARY	Los Angeles, Calif.	Robt. D. Farquhar
WAYNE COUNTY & HOME BANK	Detroit, Mich.	Albert Kahn
TITLE GUARANTY & TRUST CO.	New York, N. Y.	John Mead Howells
CHEMICAL NATIONAL BANK	New York, N. Y.	Walker & Gillette
BANKERS TRUST COMPANY	New York, N. Y.	Charles E. Birge
EAST NEW YORK SAVINGS BANK	Brooklyn, N. Y.	Holmes & Winslow
HOBOKEN BANK FOR SAVINGS	Hoboken, N. J.	Ludlow & Peabody
BRONX SAVINGS BANK	New York, N. Y.	Morgan, French & Co., Inc.
FIRST NATIONAL BANK & TRUST CO.	Ridgewood, N. J.	Morgan, French & Co., Inc.
CITY NATIONAL BANK & TRUST CO.	Danbury, Conn.	Morgan, French & Co., Inc.
FARMERS BANK	Wilmington, Del.	Edward Canby May
FEDERAL AMERICAN NATIONAL BANK	Washington, D. C.	Alfred C. Bossom
FARMERS NATIONAL BANK	Beaver Falls, Pa.	Uffinger, Foster & Bookwalter
OZONE PARK NATIONAL BANK	Woodhaven, N. Y.	Uffinger, Foster & Bookwalter
ALLENTOWN NATIONAL BANK	Allentown, Pa.	Ruhe & Lange
NEWPORT SAVINGS BANK	Newport, R. I.	Thomas M. James
APARTMENT 740 PARK AVENUE	New York, N. Y.	Rosario Candela
FRED F. FRENCH CO. BUILDING	New York, N. Y.	Fred F. French Co.
PACKARD BUILDING	Philadelphia, Pa.	Ritter & Shay
GRANT BUILDING	Pittsburgh, Pa.	Henry Hornborstel
PHILLIPS OFFICE BUILDING	Butler, Pa.	Janssen & Cocken
VILLA MARIA COLLEGE	Chester City, Pa.	Paul Monaghan
CYPRESS HILLS MAUSOLEUM	Brooklyn, N. Y.	Gregory B. Webb
FAIRVIEW COMMUNITY MAUSOLEUM	Fairview, N. J.	Webb & Sohn
GREENMOUNT COMMUNITY MAUSOLEUM	Baltimore, Md.	Buckler & Fenhagen

# GENERAL BRONZE CORPORATION

*Distinctive Productions in All Metals*

ART, ARCHITECTURAL, SCULPTURAL, DECORATIVE AND MISCELLANEOUS  
METAL WORK OF EVERY DESCRIPTION

MADE BY THE

ORNAMENTAL BRONZE AND IRON TRADES

THESE products are specially manufactured to meet the most exacting demands of Architects' Plans and Specifications, Sculptors' Models and Artists' Designs. The Engineering methods of Bronze Construction and Bronze Working, which we employ in manufacture, preserve every art value of design while enhancing them with distinctive qualities of metalcraft.

We also develop standardized ARCHITECTURAL and

BUILDING SPECIALTIES in METAL. These retain the same CLASS and QUALITY that distinguish our Special Work.

Our DESIGNING, DRAUGHTING, ENGINEERING, EXPERIMENTAL and RESEARCH Departments are open to the Profession in Developing Plans and Details as well as Assisting in the co-ordination of other Trades in connection with ORNAMENTAL METAL WORK—Contracted or Prospective.

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Long Island City, N. Y.

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Long Island City, N. Y.

Roman Bronze Works Statuary Foundry  
Corona, N. Y.

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1962 – 2011



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6 East 56th Street  
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Tiffany Bronze & Iron Plant  
Corona, N. Y.

Renaissance Bronze & Iron Plant  
Long Island City, N. Y.

Roman Bronze Works Statuary Foundry  
Corona, N. Y.

Flour City Ornamental Iron Plant  
Minneapolis, Minn.

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